

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number: 10/775,169A
Source: 1Fw/6
Date Processed by STIC: 1/9/09

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: 10/275,169A

CRF Edit Date: 1/9/07
Edited by: [signature]

___ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

___ Corrected the SEQ ID NO. Sequence numbers edited were:

___ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

___ Deleted: ___ invalid beginning/end-of-file text ; ___ page numbers

___ Inserted mandatory headings/numeric identifiers, specifically:

___ Moved responses to same line as heading/numeric identifier, specifically:

___ Other: Sequence 6-corrected <2227 response



IFW16

RAW SEQUENCE LISTING

DATE: 01/09/2007

PATENT APPLICATION: US/10/775,169A

TIME: 13:03:05

Input Set : N:\AMC\775169.txt

Output Set: N:\CRF4\01092007\J775169A.raw

3 <110> APPLICANT: Burczynski, Michael
 4 Twine, Natalie
 5 Dorner, Andrew
 6 Trepicchio, William
 8 <120> TITLE OF INVENTION: Method for Monitoring Drug Activities In Vivo
 10 <130> FILE REFERENCE: WYE-024
 12 <140> CURRENT APPLICATION NUMBER: US 10/775,169A
 13 <141> CURRENT FILING DATE: 2004-02-11
 15 <150> PRIOR APPLICATION NUMBER: US 60/538,246
 16 <151> PRIOR FILING DATE: 2004-01-23
 18 <150> PRIOR APPLICATION NUMBER: US 60/459,782
 19 <151> PRIOR FILING DATE: 2003-04-03
 21 <150> PRIOR APPLICATION NUMBER: US 60/446,133
 22 <151> PRIOR FILING DATE: 2003-02-11
 24 <160> NUMBER OF SEQ ID NOS: 5278
 26 <170> SOFTWARE: PatentIn version 3.2
 28 <210> SEQ ID NO: 1
 29 <211> LENGTH: 2405
 30 <212> TYPE: DNA
 31 <213> ORGANISM: Homo sapiens
 33 <400> SEQUENCE: 1
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 36 tcctggtgct gttgcttttg ggtgctccct ggacgcacgg gcggcggagc aacgttcgcg 120
 38 tcatcacgga cgagaactgg agagaactgc tggaggaga ctggatgata gaattttatg 180
 40 ccccggtggtg ccttgcttgc caaatcttc aaccggaatg ggaaagtttt gctgaatggg 240
 42 gagaagatct tgagggttaat attgcgaaag tagatgtcac agagcagcca ggactgagtg 300
 44 gacggtttat cataactgct ctctacta tttatcattg taaagatggt gaatttaggc 360
 46 gctatcaggg tccaaggact aagaaggact tcataaactt tataagtgat aaagagtggg 420
 48 agagtattga gcccggttca tcatggtttg gtccagggtt tgttctgatg agtagtatgt 480
 50 cagcactctt tcagctatct atgtggatca ggacttgcca taactacttt attgaagacc 540
 52 ttggattgcc agtggtggga tcatatactg tttttgcttt agcaactctg ttttccggac 600
 54 tgttattagg actctgtatg atatttgttg cagattgcct ttgtccttca aaaaggcgca 660
 56 gaccacagcc gtacccatac ctttcaaaaa aattattatc agaactctgca caacctttga 720
 58 aaaaagtggg ggaggaacaa gaggcggatg aagaagatgt ttcagaagaa gaagctgaaa 780
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 62 catctatggc cacagataaa tcttagttaa attttatagt tatcttaata ttatgatttt 900
 64 gataaaaaca gaagattgat cattttgttt ggtttgaagt gaactgtgac ttttttgaat 960
 66 attgcagggt tcagttctaga ttgtcattaa attgaagagt ctacattcag aacataaaaag 1020
 68 cactaggtat acaagtttga aatatgattt aagcacagta tgatggttta aatagttctc 1080
 70 taatttttga aaaatcgtgc caagcaataa gatttatgta tatttgttta ataataacct 1140
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 74 agaagattat ttttagagaaa aatatttctc atttgatata atttttctct gtttcaactgt 1260
 76 gtgaaaaaaa gaagatattt cccataaatg ggaagtttgc ccattgtctc aagaaatgtg 1320

see p 6-7

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Input.Set : N:\AMC\775169.txt

Output Set: N:\CRF4\01092007\J775169A.raw

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80 taggttatgc aactaataaa aactacetta cattaattaa ttacagtttt ctacacatgg 1440
82 taatacagga tatgtactg atttaggaag tttttaagtt catggtattc tcttgattcc 1500
84 aacaaagtgt gattttctct tgtatttttc ttacttacta tgggttacat tttttatttt 1560
86 tcaaatggga tgataatttc ttggaaacat tttttatggt ttagtaaaca gtattttctt 1620
88 gttgtttcaa actgaagttt actgagagat ccatcaaatt gaacaatctg ttgtaattta 1680
90 aaattttggc cacttttttc agattttaca tcattcttgc tgaacttcaa cttgaaattg 1740
92 tttttttttt tttttctttt tggatgtgaa ggtgaacatt cctgattttt gtctgatgtg 1800
94 aaaaagcctt ggtattttac attttgaaaa ttcaaagaag cttaataata aagtttgcac 1860
96 tctactcagg aaaaagcatc ttcttgata tgtcttaa atgtttttgt cctcatatac 1920
98 agaaagtctt taattgattt tacagtctgt aatgcttgat gttttaaa atataacactt 1980
100 ttatattttt taaaagacaa acatcatatt atcctgtggt ctttcttgac tggtaatttt 2040
102 gtgtgggatt tcacaggtaa aagtcagtag gatggaacat tttagtgtat ttttactcct 2100
104 taaagagcta gaatacatag ttttcacctt aaaagaaggg ggaaatcat aaatacaatg 2160
106 aatcaactga ccattacgta gtagacaatt tctgtaattg ccccttcttt ctaggctctg 2220
108 ttgctgtgtg aatccattag atttacagta tcgtaataata caagttttct ttaaagccct 2280
110 ctcttttaga atttaaaata ttgtaccatt gaagagttcg gatgtgtaac ttgtgatgcc 2340
112 ttagaaaaat atcctaagca caaaataaac ctttctaacc acttcaaaaa aaaaaaaaaa 2400
114 aaac 2405
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118 <211> LENGTH: 1811
119 <212> TYPE: DNA
120 <213> ORGANISM: Homo sapiens
122 <400> SEQUENCE: 2
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127 acagcgcac atgacctgt cgggtgtgga gatgtatcac tcccgcacgc agcgcggtgg 180
129 cctgcggctg caccggagtc tgcagctgtc gctggtcatg cgcagcgcgc gggagctcta 240
131 cctctcggcc aaggtggagg cctcagagcc cgaggtgtcg ttgccggccg cctcccctc 300
133 tgacctcgc ctgcacccgc cccgagaagc cgagtcacac gccgagacag cgacccccga 360
135 cgggtgagcac cgtttccgg agccaatgga cacgcaggag gcgcgacag ccgaggagac 420
137 ctccgcctgc tgtgccccgc gccccgccaa agtcagccgc aaacgacgca gcagcagcct 480
139 gagcgacggc ggggacgttg gactggtccc gagcaagaaa gcccgctctg aagaaaagga 540
141 agaagaggag ggagcgtcat ccgaagtgc cgatcgccct cagccccctc cgggccaagc 600
143 ggaggcgccc tttcccaacc tggcccgcgt cctgcagagg cgtttctccg gctcctgaa 660
145 ctgcagcccc gcggccccct cgacggcgcc gccgcgctgc gaggcaaagc ccgcttgccg 720
147 cccggcggac agcatgctca acgtgctcgt gcgggcgctg gtggccttct gaggaccccg 780
149 agcggcgctg ccggagccca gacgcgcgt cgaaccgtcg gcccgagggc gcagacctga 840
151 ggcgaggcca cccccctcca tctggggga agcgcgcgcg aaaaccgtgg agagaagccg 900
153 cgcggcgggc tgcagagagg cccggagagg actctgtccc cggggagcca tcgccttcag 960
155 tgtgcaggga cggcaccgag gactctgagc cgggcgcggg cgccttcgc agagacctgc 1020
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159 gagaagggag gcttgggtgt tgtgtttttt gttttgtttg tttgtttgtt tttaaagatc 1140
161 tcctcagggt cggacttcat tttgtactgt gggctgtgct ggccttttca aggtttttca 1200
163 agagtgtggt ttgcgtttcc aacctcggag aattccaggc actccccctc cccctccgct 1260
165 gacatacttg tataagcggc catcgtttgc tcatggggca ggcgtgggga gcttctgtc 1320
167 gccttggtcg ggtgtgggccc tggaggaagg tctggggcg tgcactcgcc tgggcagtgg 1380
169 ggaggagagt ggcctgagtt acttcacccc cgcgtgctgc tggttaatgt cccgcgtctc 1440
171 tgcaccttcg ggtgggagcg gggactgac tactttcaca ttctcaagtt tttctcatct 1500

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Input Set : N:\AMC\775169.txt

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175 cacaatcagc cgagaagttc ctggtctgaa tcacgagaat gtggaggggt ggggggtgtc 1620
177 agtggaagg cataaggctg agctgagacc agttgctggt gaaactgggc caatctgggg 1680
179 aggggaacat ccttgccagg gagtttctga gggctctgctt tgtttacctt tcgtgcgggtg 1740
181 gattcttttt aactccgtct acctggcggt ttgttagaaa tgtcagatag gaaaataaaa 1800
183 accatttgag t 1811
186 <210> SEQ ID NO: 3
187 <211> LENGTH: 793
188 <212> TYPE: DNA
189 <213> ORGANISM: Homo sapiens
191 <400> SEQUENCE: 3
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194 ccgaggcagc tcgagcccag tccgcggccc cagcagcagc gccgagagca gcccagtag 120
196 cagcgccatg gccgggtgga acgcctacat cgacaacctc atggcgagac ggacctgtca 180
198 ggacgcggcc atcgtgggct acaaggactc gccctcgcgc tgggcccgcg tccccgggaa 240
200 aacgttcgtc aacatcacgc cagctgaggt ggggtgtcctg gttggcaaag accggtcaag 300
202 tttttacgtg aatgggctga cacttggggg ccagaaatgt tcggtgatcc gggactcact 360
204 gctgcaggat ggggaattta gcatggatct tcgtaccaag agcaccggtg gggcccccac 420
206 cttcaatgtc actgtcacca agactgacaa gacgctagtc ctgctgatgg gcaaagaagg 480
208 tgtccacggg ggtttgatca acaagaaatg ttatgaaatg gcctcccacc ttcggcgctc 540
210 ccagtagtga cctcgtctgt ccttccctcc tcaccgctcc ccacagcttt gcacctttt 600
212 cctcccaata cacacacaaa ccattttatt ttttgggcca ttacccata ccccttattg 660
214 ctgccaaaac cacatgggct gggggccagg gctggatgga cagacacctc cccctaccca 720
216 tatccctccc gtgtgtgggt ggaaaacttt tgttttttgg ggtttttttt ttctgaataa 780
218 aaaagattct act 793
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222 <211> LENGTH: 502
223 <212> TYPE: DNA
224 <213> ORGANISM: Homo sapiens
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229 gttaaggggtg acagcctgca aggtagccat ccagcagcct ggggaagagca gcctctgggt 120
231 aacaccagag acagacattt aggagcagga ggggtttggg caggagcttt atgctgaaga 180
233 ggttggtctaa acatacatat tcaacaggct acaggaggag ctatgaatat tcatgtaggt 240
235 ggttgccagtc catgcttatt gaacaaacat gtgtggaaca tatgatccca gcaatattta 300
237 aaatcttcat agtccatgat ctccacagcg accccttctt gactcaggct gcggcgccct 360
239 cctggtaaca tggatactgg aagtagtaga ggcggggcgt gaagatgggt agattcacgt 420
241 tgctgtgctt ggccaggaac tcggccacct cccctgcaca gtctgggcaa gggctccaag 480
243 atgtgtacca ggtgacctgg ta 502
246 <210> SEQ ID NO: 5
247 <211> LENGTH: 1015
248 <212> TYPE: DNA
249 <213> ORGANISM: Homo sapiens
251 <400> SEQUENCE: 5
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254 cggctgcgga gcgggtgtga ggcggctgga ccgcgctgca ggcattccgc ggcgcggcaa 120
256 gatggaggtg acgggggtgt cggcaccacg gtgaccgttt tcatcagcag ctccctcagc 180
258 accttccgct ccgagaagcg atacagccgc agcctcacca tcgctgagtt caagtgtaaa 240
260 ctggagttgc tgggtggcag ccctgcttcc tgcattggaac tggagctgta tggagttgac 300

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TIME: 13:03:05

Input Set : N:\AMC\775169.txt

Output Set: N:\CRF4\01092007\J775169A.raw

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262 gacaagttct acagcaagct ggatcaagag gatgcgctcc tgggctccta ccctgtagat 360
264 gacggctgcc gcatccacgt cattgaccac agtggcgccc gccttggtga gtatgaggac 420
266 gtgtcccggg tggagaagta cacgatctca caagaagcct acgaccagag gcaagacacg 480
268 gtccgctctt tcctgaagcg cagcaagctc ggccgggtaca acgaggagga gcgggctcag 540
270 caggaggccg aggccgccca gcgcctggcc gaggagaagg cccaggccag ctccatcccc 600
272 gtgggcagcc gctgtgaggt gcgggcggcg ggacaatccc ctgcggggg caccgtcatg 660
274 tatgtaggtc tcacagattt caagcctggc tactggattg gtgtccgcta tgatgagcca 720
276 ctggggaaaa atgatggcag tgtgaatggg aaacgctact tcgaatgcca ggccaagtat 780
278 ggcgcctttg tcaagccagc agtcgtgacg gtgggggact tcccggagga ggactacggg 840
280 ttggacgaga tatgacacct aaggaattcc cctgcttcag ctccatagctc agccactgac 900
282 tgcctctctt gtgtgtgccc atggcccttt tctcctgacc ccattttaat tttattcatt 960
284 ttttcttttg ccattgattt ttgagactca tgcattaaat tcactagaaa cccag 1015

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287 <210> SEQ ID NO: 6

288 <211> LENGTH: 1484

289 <212> TYPE: DNA

290 <213> ORGANISM: Homo sapiens

293 <220> FEATURE:

294 <221> NAME/KEY: misc feature

295 <222> LOCATION: (317)..(1037)

296 <223> OTHER INFORMATION: Each "n" represents a nucleotide selected from a, t, g or c,

or

297 contains no nucleotide.

299 <400> SEQUENCE: 6

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304 gtgcaatggc gtgttctcag cttactcaac ctccgcctct tgggtttggg taattgttgt 180
306 gcctcggcct ccctctgcct cttgggcttg ggcgattgtt ccacctcatc cgccctccgc 240
308 ctcttggtgt tcggtgattg ttccacctca tccacctccc acctcttggg gtttggggtg 300
W--> 310 ggtttttccg cctcggncc cctgagtagc taaggaggga gtcttgagat tatcatccac 360
312 tgagggtgga agaggagagg gtggaagagg gacaaagaga cagtccttca gattatcatc 420
314 cactgagggt ggaagaggag aggggtggaag agggaccagg agacactcct tcagattatc 480
316 atccactgag ggtggaagag gagcaagagg acactccttg atattatcat cactgagggg 540
318 tgggaagggg tgaaggagac attcgggagg tgtcttgagg ctgagggagt tatcagttat 600
320 agaattgtgt tgagttggag gaggtggctg gcggcccata ctgtttttta aagtttcagc 660
322 tgtgaggtag ggccagcagg gcaatcctga agaattgatga tgctccgctg ccgccattct 720
324 gacctgtagg gccgaagaag ggaattgttt cacacatatt catttgatgg acaaaattac 780
326 cgccaccaac acggtctgca ccttctgttg ctggtgatag atttnngcac ctttccatcc 840
328 tccaggtttc aaaatagnag tatcagtgtc ataatatcac ccttccactg agtactgccg 900
330 acagntgggg agtaaagaaa agtcattggg acacactgtt gtctccacat gccactgtgt 960
332 ctgtctgcaa atgtaggtag gctgggggtc tgccccaggg aagacagagt cataacagag 1020
334 taataaagag gcatgtntga gacacaggag tgtctatgtc tatcctcatt cctccctcac 1080
336 agccatcacc agagcatgtt tcttgacca ggtcaacaga cagtaagaga ggcatgaaaa 1140
338 gccattgtc cacacatgtt gcagcttctt tttggagaat gttttccagg ctttttatgt 1200
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342 aaaacagagg ttaccagagg aaggagaaat tgtgcccggg gtcacacagc ttgcaagagg 1320
344 cagagtggaa gttgattcca gctctgcctg caggaccctc tcatttcccc tgtttccctt 1380
346 cttgataaag gatcttcttc actctggagg tgccacccat gagaacaaag agctctgcag 1440
348 agatgtggat tcctgaagag ctgcaggggg actgggagag gggt 1484

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351 <210> SEQ ID NO: 7

352 <211> LENGTH: 1659

RAW SEQUENCE LISTING

DATE: 01/09/2007

PATENT APPLICATION: US/10/775,169A

TIME: 13:03:05

Input Set : N:\AMC\775169.txt

Output Set: N:\CRF4\01092007\J775169A.raw

353 <212> TYPE: DNA

354 <213> ORGANISM: Homo sapiens

356 <400> SEQUENCE: 7

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361 ctccagcaag ttccgccacg tgtttggaca gccggccaag gccgaccagt gctatgaaga 180
363 tgtgcgcgtc tcacagacca cctgggacag tggcttctgt gctgtcaacc ctaagtttgt 240
365 ggccctgata tgtgaggcca gcgggggagg ggccttctgt gtgctgcccc tgggcaagac 300
367 tggacgtgtg gacaagaatg cggccacggc ctgtggccac acagccctgt tgctagacat 360
369 cgccgtgtgc ccgcacaatg acaacgtcat tgccagtggc tccgaggact gcacagtcat 420
371 ggtgtgggag atcccgatg ggggctgat gctgccccct cgggagcccg tcgtcacct 480
373 ggagggccac accaagcgtg tgggcattgt ggctggcac accacagccc agaacgtgct 540
375 gctcagtga ggttgtgaca acgtgatcat ggtgtgggac gtgggcaact gggcgcccat 600
377 gctgacactg ggcccagagg tgcacccaga cagcatctac agtgtggact ggagccgaga 660
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391 ctccatgttc agttccaagg agtcccagcg gggcatgggc tacatgccc aacgtggcct 1080
393 ggaggtgaac aagtgtgaga tcgccaggtt ctacaagctg cagcagcgga ggtgtgagcc 1140
395 cattgccatg acagtgcctc gaaagtccga cctgttccag gaggacctgt acccaccac 1200
397 cgcagggccc gacctgccc tcacggctga ggagtggctg gggggtcggg atgctgggcc 1260
399 cctcctcatc tccctcaagg atggctacgt acccccaaag agccgggagc tgaggggtcaa 1320
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403 ggatgccgtg tctcggtgg aggaggagat gcggaagctc caggccacgg tgcaggagct 1440
405 ccagaagcgc ttggacaggc tggaggagac agtccaggcc aagtagagcc ccgcagggcc 1500
407 tccagcaggg tcagccattc acacccatcc actcacctcc cattcccagc cacatggcag 1560
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411 aaaaaaaaaa aaaaaaaaaa aaaaaaaagg ggggggggga 1659

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414 <210> SEQ ID NO: 8

415 <211> LENGTH: 1980

416 <212> TYPE: DNA

417 <213> ORGANISM: Homo sapiens

420 <220> FEATURE:

421 <221> NAME/KEY: misc_feature

422 <222> LOCATION: (5)..(5)

423 <223> OTHER INFORMATION: Each "n" represents a nucleotide selected from a, t, g or c,

or

424 contains no nucleotide.

426 <400> SEQUENCE: 8

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431 cagcagttgg gtattgcata gtgttactgt gttaaggta ggggtcaaag acttactggc 180
433 atggagtaac cagagtaagt gagctggaaa gatgagttat cagggcagag aggggtgctt 240
435 ggaattgagg ctttggagct gtgaaagtga caagatgcag gtattaccat gggagtccgc 300
437 agctgaggtg gggtaaagga gatgctctgt ggaagggaga tgaaggcact gaagtcagcc 360
439 agaaacacaa aaactggtgg tggtagtga gcagagtggc agtgagcccc aagcttccag 420
441 ttttctcctt ggacagtcac cgttaattat tattattatt ttttgagatg gagtttccct 480

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/775,169ADATE: 01/09/2007
TIME: 13:03:06Input Set : N:\AMC\775169.txt
Output Set : N:\CRF4\01092007\J775169A.raw**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:6; N Pos. 317,825,826,858,905,978,1037
Seq#:8; N Pos. 5
Seq#:13; N Pos. 665
Seq#:22; N Pos. 604
Seq#:23; N Pos. 2,224,236,239,270,273,277,329,337,341,361,372,378,385,392
Seq#:23; N Pos. 393,462,475,486,488,501,502,504,505,509,511,512,517,521,525
Seq#:23; N Pos. 526,527,528,529,530,531,532,533,534,535,536,537,538,539,540
Seq#:23; N Pos. 541,542,543,545,546,547,548,549,552,553,554,555,564,565,566
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Seq#:90; N Pos. 859,860,861,862,864,865,866,867,868,869,871,880
Seq#:125; N Pos. 2084

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/775,169A

DATE: 01/09/2007
TIME: 13:03:06

Input Set : N:\AMC\775169.txt
Output Set: N:\CRF4\01092007\J775169A.raw

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Seq#:132; N Pos. 606,624,629,661,667,674,694
Seq#:134; N Pos. 20,25,1158
Seq#:163; N Pos. 27,766
Seq#:208; N Pos. 694
Seq#:210; N Pos. 57,58,59,60,61
Seq#:217; N Pos. 228

VERIFICATION SUMMARY

DATE: 01/09/2007

PATENT APPLICATION: US/10/775,169A

TIME: 13:03:06

Input Set : N:\AMC\775169.txt

Output Set: N:\CRF4\01092007\J775169A.raw

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M:341 Repeated in SeqNo=6
L:427 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:759 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:660
L:1087 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:600
L:1105 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0
M:341 Repeated in SeqNo=23
L:1513 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:540
L:2541 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:600
L:10177 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62 after pos.:420
L:10193 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63 after pos.:0
M:341 Repeated in SeqNo=63
L:11529 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76 after pos.:240
M:341 Repeated in SeqNo=76
L:24345 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:90 after pos.:0
M:341 Repeated in SeqNo=90
L:26891 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:125 after pos.:2040
L:26974 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:127 after pos.:480
M:341 Repeated in SeqNo=127
L:27244 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:132 after pos.:600
M:341 Repeated in SeqNo=132
L:27277 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:134 after pos.:0
M:341 Repeated in SeqNo=134
L:34141 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:163 after pos.:0
M:341 Repeated in SeqNo=163
L:44581 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:208 after pos.:660
L:44620 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:210 after pos.:0
M:341 Repeated in SeqNo=210
L:44914 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:217 after pos.:180
L:44965 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:219 after pos.:360
M:341 Repeated in SeqNo=219
L:57452 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:253 after pos.:2100
M:341 Repeated in SeqNo=253
L:58295 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:263 after pos.:240
L:59712 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:275 after pos.:480
L:60133 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:283 after pos.:0
M:341 Repeated in SeqNo=283
L:60660 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:291 after pos.:60
M:341 Repeated in SeqNo=291
L:60696 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:292 after pos.:180
M:341 Repeated in SeqNo=292
L:60716 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:293 after pos.:0
M:341 Repeated in SeqNo=293
L:60750 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:294 after pos.:0
M:341 Repeated in SeqNo=294
L:60838 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:297 after pos.:120
M:341 Repeated in SeqNo=297
L:60891 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:299 after pos.:60

VERIFICATION SUMMARY

DATE: 01/09/2007

PATENT APPLICATION: US/10/775,169A

TIME: 13:03:06

Input Set : N:\AMC\775169.txt

Output Set: N:\CRF4\01092007\J775169A.raw

M:341 Repeated in SeqNo=299

L:60919 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:300 after pos.:0

**Raw Sequence Listing before editing
(for reference only)**



IFW16

RAW SEQUENCE LISTING

DATE: 01/08/2007

PATENT APPLICATION: US/10/775,169A

TIME: 14:46:53

Input Set : E:\Sequence Listing.ST25.txt

Output Set: N:\CRF4\01082007\J775169A.raw

3 <110> APPLICANT: Burczynski, Michael
 4 Twine, Natalie
 5 Dorner, Andrew
 6 Trepicchio, William
 8 <120> TITLE OF INVENTION: Method for Monitoring Drug Activities In Vivo
 10 <130> FILE REFERENCE: WYE-024
 12 <140> CURRENT APPLICATION NUMBER: US 10/775,169A
 13 <141> CURRENT FILING DATE: 2004-02-11
 15 <150> PRIOR APPLICATION NUMBER: US 60/538,246
 16 <151> PRIOR FILING DATE: 2004-01-23
 18 <150> PRIOR APPLICATION NUMBER: US 60/459,782
 19 <151> PRIOR FILING DATE: 2003-04-03
 21 <150> PRIOR APPLICATION NUMBER: US 60/446,133
 22 <151> PRIOR FILING DATE: 2003-02-11
 24 <160> NUMBER OF SEQ ID NOS: 5278
 26 <170> SOFTWARE: PatentIn version 3.2
 28 <210> SEQ ID NO: 1
 29 <211> LENGTH: 2405
 30 <212> TYPE: DNA
 31 <213> ORGANISM: Homo sapiens
 33 <400> SEQUENCE: 1

P.4
 Does Not Comply
 Corrected Diskette Needed

34	gggggaggtg	ggcaagcggc	gaaatggcgc	cctccgggag	tcttgcaagt	cccctggcag	60
36	tcctggtgct	gttgctttgg	ggtgctccct	ggacgcacgg	gcggcggagc	aacgttcgcg	120
38	tcatacagga	cgagaactgg	agagaactgc	tggaaggaga	ctggatgata	gaattttatg	180
40	ccccgtggtg	ccctgcttgt	caaaatcttc	aaccggaatg	ggaaagtgtt	gctgaatggg	240
42	gagaagatct	tgaggttaat	attgcgaaag	tagatgtcac	agagcagcca	ggactgagtg	300
44	gacggtttat	cataactgct	cttcctacta	tttatcattg	taaagatggt	gaatttaggc	360
46	gctatcaggg	tccaaggact	aagaaggact	tcataaactt	tataagtgat	aaagagtggg	420
48	agagtattga	gcccgtttca	tcatggtttg	gtccagggtc	tgttctgatg	agtagtatgt	480
50	cagcactctt	tcagctatct	atgtggatca	ggacttgcca	taactacttt	attgaagacc	540
52	ttggattgcc	agtgtgggga	tcatatactg	tttttgcttt	agcaactctg	ttttccggac	600
54	tgttattagg	actctgtatg	atattttgtg	cagattgcct	ttgtccttca	aaaaggcgca	660
56	gaccacagcc	gtacccatac	ccttcaaaaa	aattattatc	agaatctgca	caacctttga	720
58	aaaaagtggg	ggaggaacaa	gaggcggatg	aagaagatgt	ttcagaagaa	gaagctgaaa	780
60	gtaaaagaag	aacaaacaaa	gactttccac	agaatgccat	aagacaacgc	tctctgggtc	840
62	catcattggc	cacagataaa	tcctagttaa	attttatagt	tatcttaata	ttatgatttt	900
64	gataaaaaca	gaagattgat	cattttgttt	ggtttgaagt	gaactgtgac	ttttttgaat	960
66	attgcagggt	tcagtctaga	ttgtcattaa	attgaagagt	ctacattcag	aacataaaag	1020
68	cactagggtat	acaagtgtga	aatatgattt	aagcacagta	tgatgggtta	aatagttctc	1080
70	taatttttga	aaaatcgtgc	caagcaataa	gatttatgta	tatttggtta	ataataacct	1140
72	atttcaagtc	tgagttttga	aaatttacat	ttcccaagta	ttgcattatt	gaggatttta	1200
74	agaagattat	tttagagaaa	aatatttctc	atttgatata	atttttctct	gtttcactgt	1260
76	gtgaaaaaaa	gaagatattt	cccataaatg	ggaagtttgc	ccattgtctc	aagaaatgtg	1320

RAW SEQUENCE LISTING

DATE: 01/08/2007

PATENT APPLICATION: US/10/775,169A

TIME: 14:46:53

Input Set : E:\Sequence Listing.ST25.txt

Output Set: N:\CRF4\01082007\J775169A.raw

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78 tattttcagtg acaatttcgt ggtcttttta gaggtatatt ccaaatttc cttgtatttt 1380
80 taggttatgc aactaataaa aactacctta cattaattaa ttacagtttt ctacacatgg 1440
82 taatacagga tatgctactg atttaggaag tttttaagtt catggatttc tcttgattcc 1500
84 aacaaagtgt gattttctct tgtatttttc ttacttacta tgggttacat tttttatttt 1560
86 tcaaatggga tgataatttc ttggaaacat tttttatggt ttagtaaaca gtattttcct 1620
88 gttgtttcaa actgaagttt actgagagat ccatcaaatt gaacaatctg ttgtaattta 1680
90 aaattttggc cacttttttc agattttaca tctattcttg tgaacttcaa cttgaaattg 1740
92 tttttttttt tttttctttt tggatgtgaa ggtgaacatt cctgattttt gtctgatgtg 1800
94 aaaaagcctt ggtattttac attttgaaaa ttcaaagaag cttaataata aagtttgcac 1860
96 tctactcagg aaaaagcatc ttcttgata tgtcttaaat gtatttttgt cctcatatac 1920
98 agaaagtctt taattgattt tacagtctgt aatgcttgat gttttaaaat aataacactt 1980
100 ttatattttt taaaagacaa acatcatatt atcctgtggt ctttcctgac tggtaaatatt 2040
102 gtgtgggatt tcacaggtaa aagtcagtag gatggaacat tttagtgtat ttttactcct 2100
104 taaagagcta gaatacatag ttttcacctt aaaagaaggg ggaaaatcat aaatacaatg 2160
106 aatcaactga ccattacgta gtagacaatt tctgtaattg ccccttcttt ctaggctctg 2220
108 ttgctgtgtg aatccattag atttacagta tctgtaata caagttttct ttaaagccct 2280
110 ctcttttaga atttaaaata ttgtaccatt gaagagttcg gatgtgtaac ttgtgatgcc 2340
112 ttagaaaaat atcctaagca caaaataaac ctttctaacc acttcaaaaa aaaaaaaaaa 2400
114 aaaaac 2405
117 <210> SEQ ID NO: 2
118 <211> LENGTH: 1811
119 <212> TYPE: DNA
120 <213> ORGANISM: Homo sapiens
122 <400> SEQUENCE: 2
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125 ccctcccggg agcccccgcc gctgtcgccg tcgagtcgcc atggaagtgc agaaagaggc 120
127 acagcgcac atgaccctgt cgggtgtgaa gatgtatcac tcccgcacgc agcgcggtgg 180
129 cctgcgggtg caccggagtc tgcagctgtc gctggtcacg cgcagcgcgc gggagctcta 240
131 cctctcggcc aaggtggagg ccctcgagcc cgaggtgtcg ttgccggccg ccctcccctc 300
133 tgaccctcgc ctgcacccgc cccgagaaag cgagtcacac gccgagacag cgacccccga 360
135 cgggtgagcac ccgtttccgg agccaatgga cagcgaggag gcgccgacag ccgaggagac 420
137 ctccgcctgc tgtgccccgc gccccgcaa agtcagccgc aaacgacgca gcagcagcct 480
139 gagcgacggc ggggacgttg gactggtccc gagcaagaaa gcccgtctgg aagaaaagga 540
141 agaagaggag ggagcgtcat ccgaagtcgc cgatcgctg cagccccctc cgggccaaagc 600
143 ggagggcgcc tttcccaacc tggcccgcgt cctgcagagg cgcttctccg gcctcctgaa 660
145 ctgcagcccc gcggccccctc cgacggcgcc gccgcgtgc gaggcaaagc ccgcttgccg 720
147 cccggcgagc agcatgctca acgtgctcgt gcgggcccgt gtggccttct gaggaccccg 780
149 agcggcgctg ccggagccca gagcgcgctg cgaaccgtcg gcccgagggc gcagacctga 840
151 ggcgaggcca cccccctcca tcctggggga agcgcgccgc aaaaccgtgg agagaagccg 900
153 ccgcccgggc tgcagagagg cccggagagg actctgtccc cggggagcca tcgccttcag 960
155 tgtgcaggga cggcaccgag gactctgagc cgggcgcggg cgcttccgc agagacctgc 1020
157 gccacaggt gctgtcttag tggactggga cgtgaacctt tcgctctcct tctggactgg 1080
159 gagaagggag gcttgggtgt tgtgtttttt gttttgtttg tttgtttgtt tttaaagatc 1140
161 tcctcagggt cggacttcat tttgtactgt gggctgtgct ggccctttca aggtttttca 1200
163 agagttgggt ttgcgtttcc aacctcggag aattccaggc actccccttc ccctccgct 1260
165 gacatacttg tataagcggc catcgcttgc tcatggggca ggcgtgggga gcttcctgtc 1320
167 gccttggtg ggtgtgggccc tggaggaaag tcctggggcg tgcaactgcc tgggcagtgg 1380
169 ggaggagagt ggctgagtt acttcacccc cgcgtgctgc tgggttaatgt cccgcgtctc 1440
171 tgcaccttcg ggtgggagcg gggactgatc tactttcaca ttctcaagtt tttctcatct 1500

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RAW SEQUENCE LISTING

DATE: 01/08/2007

PATENT APPLICATION: US/10/775,169A

TIME: 14:46:53

Input Set : E:\Sequence Listing.ST25.txt

Output Set: N:\CRF4\01082007\J775169A.raw

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173 gcattagagg tccccagtag gttcccaggt tccagcgtgc cctccctca gacacacgga 1560
175 cacaatcagc cgagaagttc ctggtctgaa tcacgagaat gtggaggggt ggggggtgtc 1620
177 agtggaaaagg cataaggctg agctgagacc agttgctggt gaaactgggc caatctgggg 1680
179 aggggaacat ccttgccagg gagtttctga gggctgctt tgtttacctt tcgtgcgggtg 1740
181 gattcttttt aactccgtct acctggcggt ttgttagaaa tgtcagatag gaaaataaaa 1800
183 accatttgag t 1811
186 <210> SEQ ID NO: 3
187 <211> LENGTH: 793
188 <212> TYPE: DNA
189 <213> ORGANISM: Homo sapiens
191 <400> SEQUENCE: 3
192 ggagccgcgg tccggacggc agcgcgtgcc ccgagctctc cgctccccc cgcccgcagg 60
194 ccgaggcagc tcgagccag tccgcggccc cagcagcagc gccgagagca gccccagtag 120
196 cagcgccatg gccgggtgga acgcctacat cgacaacctc atggcgggacg ggacctgtca 180
198 ggagcggccc atcggtgggt acaaggactc gccctccgtc tgggcccgcg tccccgggaa 240
200 aacgttcgtc aacatcacgc cagctgaggt ggggtgcctg gttggcaaag accggtcaag 300
202 tttttacgtg aatgggctga cacttggggg ccagaaatgt tcggtgatcc gggactcact 360
204 gctgcaggat ggggaattta gcatggatct tcgtaccaag agcaccggtg gggcccccac 420
206 attcaatgta actgtcaca agactgacaa gacgtagtgc ctggtgatgg gcaagaagg 480
208 tgtccacggt ggtttgatca acaagaaatg ttatgaaatg gcctcccacc ttcggcgttc 540
210 ccagtactga cctcgtctgt cccttcccct tcaccgctcc ccacagcttt gcacccttt 600
212 cctcccata cacacacaaa ccattttatt ttttgggcca ttaccata ccccttattg 660
214 ctgcaaaaac cacatgggct gggggccagg gctggatgga cagacacctc cccctaccca 720
216 tatccctccc gtgtgtggtt ggaaaacttt tgttttttgg ggtttttttt ttctgaataa 780
218 aaaagattct act 793
221 <210> SEQ ID NO: 4
222 <211> LENGTH: 502
223 <212> TYPE: DNA
224 <213> ORGANISM: Homo sapiens
226 <400> SEQUENCE: 4
227 tttttttttt tttttttttt tttttttttt ttgcatttgc aaagggacac tttatttctt 60
229 gttaaggggt acagcctgca aggtagccat ccagcagcct gggaagagca gcctctgggt 120
231 aacaccagag acagacattt aggagcagga ggggtttggg caggagcttt atgctgaaga 180
233 ggttggtctaa acatacatat tcaacaggct acaggaggag ctatgaatat tcatgtaggt 240
235 ggttgagtc catgcttatt gaacaaacat gtgtggaaca tatgatcca gcaatattta 300
237 aaatcttcat agtccatgat ctccacagcg accccttcct gactcaggct gcggcgccct 360
239 cctggtaaca tggatactgg aagtagtaga ggcggcggt gaagatggtg agattcacgt 420
241 tgctgtgcct ggccaggaac tcggccacct cccctgcaca gtctgggcaa gggctccaag 480
243 atgtgtacca ggtgacctgg ta 502
246 <210> SEQ ID NO: 5
247 <211> LENGTH: 1015
248 <212> TYPE: DNA
249 <213> ORGANISM: Homo sapiens
251 <400> SEQUENCE: 5
252 tgattggtca ggcacggagc aggaggcggg ctgatagccc agcagcagca gcggcgggcg 60
254 cggctgcagg gcgggtgtga ggcggctgga ccgcgctgca ggcattccgc ggcgcggcaa 120
256 gatggaggtg acgggggtgt cggcaccacg gtgaccgttt tcatcagcag ctccctcagc 180
258 accttccgct ccgagaagcg atacagccgc agcctacca tcgctgagtt caagtgtaaa 240
260 ctggagttgc tgggtgggcag ccctgcttcc tgcattggaac tggagctgta tggagttgac 300

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RAW SEQUENCE LISTING

DATE: 01/08/2007

PATENT APPLICATION: US/10/775,169A

TIME: 14:46:53

Input Set : E:\Sequence Listing.ST25.txt

Output Set: N:\CRF4\01082007\J775169A.raw

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262 gacaagttct acagcaagct ggatcaagag gatgcgctcc tgggctccta ccctgtagat 360
264 gacggctgcc gcatccacgt cattgaccac agtggcgccc gccttggtga gtatgaggac 420
266 gtgtcccggg tggagaagta cacgatctca caagaagcct acgaccagag gcaagacacg 480
268 gtccgctctt tctgaagcg cagcaagctc ggccgggtaca acgaggagga gcgggctcag 540
270 caggaggccg aggccgcca gcgcctggcc gaggagaagg cccaggccag ctccatcccc 600
272 gtgggcagcc gctgtgaggt gcgggcggcg ggacaatccc ctgcggggg caccgtcatg 660
274 tatgtagctc tccacagattt caagcctggc tactggattg gtgtccgcta tgatgagcca 720
276 ctggggaaaa atgatggcag tgtgaatggg aaacgctact tccaatgcca ggccaagtat 780
278 ggcgctttg tcaagccagc agtcgtgacg gtgggggact tcccggagga ggactacggg 840
280 ttggacgaga tatgacacct aaggaattcc cctgcttcag ctccatagctc agccactgac 900
282 tgccctcct gtgtgtgccc atggcccttt tctcctgacc ccattttaat tttattcatt 960
284 ttttcctttg ccattgattt ttgagactca tgcattaaat tcactagaaa cccag 1015

```

287 <210> SEQ ID NO: 6

288 <211> LENGTH: 1484

289 <212> TYPE: DNA

290 <213> ORGANISM: Homo sapiens

293 <220> FEATURE:

294 <221> NAME/KEY: misc_feature

295 <222> LOCATION: (317) (1073) (1037)

296 <223> OTHER INFORMATION: Each "n" represents a nucleotide selected from a, t, g or c,

or

297 contains no nucleotide.

299 <400> SEQUENCE: 6

```

300 atttttatat tatttattta ttcttcgtta gtttgttttt ggagcgtggg ttttgttttg 60
302 ttttttgatt tttttctttt ttccgaccc acggatttat tcttattgcc caggcttgaa 120
304 gtgcaatggc gtgttctcag cttactcaac ctccgcctct tgggtttggg taattgttgt 180
306 gectcgccct cctctgcct cttgggcttg ggcgattggt ccacctcatc cgccctccgc 240
308 ctcttggttg tcggtgattt ttccacctca tccacctcc accctctggg gtttggggtg 300
W--> 310 ggtttttccg cctcggncct cctgagtagc taagggagga gtcttgagat tatcatccac 360
312 tgaggggtga agaggagagg gtggaagagg gacaaagaga cagtccttca gattatcatc 420
314 cactgagggt ggaagaggag aggggtggaag agggaccagg agacactcct tcagattatc 480
316 atccactgag ggtggaagag gagcaagagg acactccttg atattatcat ccactgaggg 540
318 tggaagggga tgaaggagac attcgggagg tgtcttgagg ctgagggagt tatcagttat 600
320 agaatgttgt tgagttggag gaggtggctg gcggcccatc ctgtttttta aagtttcagc 660
322 tgtgaggtag ggccagcagg gcaatcctga agaatgatga tgctccgctg ccgccattct 720
324 gacctgtagg gccgaagaag ggaatgtttt cacacatatt catttgatgg acaaaattac 780
W--> 326 cgccaccaac acggtctgca cttctgttg ctggtgatag attttnngcac ctttccatcc 840
W--> 328 tccaggtttc aaaatagnag tatcagtgtc ataatatcac ccttccactg agtactgccg 900
W--> 330 acagntgggg agtaaagaaa agtcattggg acacactggt gtctccacat gccactgtgt 960
W--> 332 ctgtctgcaa atgtaggnag gctgggggtc tgccccaggg aagacagagt cataacagag 1020
W--> 334 taataaagag gcatgtntga gacacaggag tgtctatgtc tatcctcatt cctccctcac 1080
336 agccatcacc agagcatggt tcttgacca ggtcaacaga cagtaagaga ggcataaaaa 1140
338 gccattgtc cacacatggt gcagcttctt tttggagaat gttttccagg ctttttatgt 1200
340 tctgtctctg attctcgaa ctctgcaagg tcagtgtgac caccctgctc caaatctaag 1260
342 aaaacagagg ttaccagagg aaggagaaat tgtgcccggg gtcacacagc ttgcaaggag 1320
344 cagagtggaa gttgattcca gctctgctg caggaccctc tcatttcccc tgtttccctt 1380
346 cttgataaag gatcttcttc actctggagg tgccacccat gagaacaaaag agctctgcag 1440
348 agatgtggat tctgaagag ctgcagggga actgggagag gggt 1484
351 <210> SEQ ID NO: 7
352 <211> LENGTH: 1659

```


RAW SEQUENCE LISTING

DATE: 01/08/2007

PATENT APPLICATION: US/10/775,169A

TIME: 14:46:53

Input Set : E:\Sequence Listing.ST25.txt

Output Set: N:\CRF4\01082007\J775169A.raw

```

353 <212> TYPE: DNA
354 <213> ORGANISM: Homo sapiens
356 <400> SEQUENCE: 7
357 tcagcgggag agtccccggc tcctccagct ccttcctcct cttcctcctc ctccctccacc      60
359 tccggctttt gggggatcac tgctctctct cggcagcaga atgagccggc aggtgggtccg      120
361 ctccagcaag ttccgccacg tgtttggaca gccggccaag gccgaccagt gctatgaaga      180
363 tgtgcgcgtc tcacagacca cctgggacac tggcttctgt gctgtcaacc ctaagtttgt      240
365 ggccctgatc tgtgaggcca gggggggagg ggccttcctg gtgctgcccc tgggcaagac      300
367 tggacgtgtg gacaagaatg cggccacggg ctgtggccac acagcccttg tcttagacat      360
369 cgcctgggtg ccgcacaatg acaacgtcat tgccagtggc tccgaggact gcacagtcat      420
371 ggtgtgggag atcccggatg ggggcctgat gctgcccctg cgggagcccg tcgtcaccct      480
373 ggagggccac accaagcgtg tgggcattgt ggctggcac accacagccc agaacgtgct      540
375 gctcagtga ggttgtgaca acgtgatcat ggtgtgggac gtgggactg gggcggccat      600
377 gctgacactg gggccagagg tgcaccaga cagatctac agtgtggact ggagccgaga      660
379 tggaggcctc atttgtacct cctgccgtga caagcgcgtg cgcacatcg agccccgcaa      720
381 aggcactgtc gtagctgaga aggaccgtcc ccacgagggg acccggcccg tgcgtgcagt      780
383 gttcgtgtcg gaggggaaga tcctgaccac gggcttcagc cgcagtgtg agcggcaggt      840
385 ggcgctgtgg gacacaaagc acctggagga gccgctgtcc ctgcaggagc tggacaccag      900
387 ggcgctgtgc ctgctgccct tctttgaccc tgacaccaac atcgtctacc tctgtggcaa      960
389 ggggtgacagc tcaatccggt actttgagat cacttccgag gcccttttcc tgcactatct     1020
391 ctccatgttc agttccaagg agtcccagcg gggcatgggc tacatgcccc aacgtggcct     1080
393 ggaggtgaac aagtgtgaga tcgccagggt ctacaagctg cacgagcggg ggtgtgagcc     1140
395 cattgccatg acagtgcctc gaaagtcgga cctgttccag gaggacctgt acccaccacc     1200
397 cgcagggccc gaccctgccc tcacggctga ggagtggctg ggggggtcggg atgctgggcc     1260
399 cctcctcatc tcctcaagg atggctacgt acccccaaag agccgggagc tgaggggtcaa     1320
401 ccggggcctg gacaccgggc gcaggagggc agcaccagag gccagtggca ctcccagctc     1380
403 ggatgccgtg tctcggtgg aggaggagat gcggaagctc caggccacgg tcgaggagct     1440
405 ccagaagcgc ttggacaggc tggaggagac agtccaggcc aagtagagcc ccgcagggcc     1500
407 tccagcaggg tcagccattc acaccatcc actcacctcc cattcccagc cacatggcag     1560
409 aaaaaaaaaa cataataaaa tggctttatt ttctggtaaa aaaaaaaaaa aaaaaaaaaa     1620
411 aaaaaaaaaa aaaaaaaaaa aaaaaaaagg ggggggggga                                1659
414 <210> SEQ ID NO: 8
415 <211> LENGTH: 1980
416 <212> TYPE: DNA
417 <213> ORGANISM: Homo sapiens
420 <220> FEATURE:
421 <221> NAME/KEY: misc_feature
422 <222> LOCATION: (5)..(5)
423 <223> OTHER INFORMATION: Each "n" represents a nucleotide selected from a, t, g or c,
or
424 contains no nucleotide.
426 <400> SEQUENCE: 8
W--> 427 ttttntccag gtgagtaaga tagaggggag aagtgggacc agggagttcc aggtctgtga      60
429 acggccctgg ctgaggagct ggatcatgaa atctgagtca agtaagaagg aaattgagga      120
431 cacgagttgg gtattgcata gtgttactgt gttaagggtc ggggtcaaag acttactggc      180
433 atggagtaac cagagtaagt cagctggaaa gatgagttat cagggcagag aggggtgctt      240
435 ggaattgagg ctttggagct gtgaaagtga caagatgcag gtattaccat gggagtcggc      300
437 agctgagggt gggtaaaagg gatgctctgt ggaagggaga tgaaggcact gaagtcagcc      360
439 agaaacacaa aaactggtgg tggtagtgta gcagagtggc agtgagcccc aagcttccag      420
441 ttttctcctt ggacagtcat cgtaattat tattattatt ttttgagatg gagtttccct      480

```

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/775,169ADATE: 01/08/2007
TIME: 14:46:54

FYI

Input Set : E:\Sequence Listing.ST25.txt
Output Set: N:\CRF4\01082007\J775169A.rawPlease Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:6; N Pos. 317,825,826,858,905,978,1037
Seq#:8; N Pos. 5
Seq#:13; N Pos. 665
Seq#:22; N Pos. 604
Seq#:23; N Pos. 2,224,236,239,270,273,277,329,337,341,361,372,378,385,392
Seq#:23; N Pos. 393,462,475,486,488,501,502,504,505,509,511,512,517,521,525
Seq#:23; N Pos. 526,527,528,529,530,531,532,533,534,535,536,537,538,539,540
Seq#:23; N Pos. 541,542,543,545,546,547,548,549,552,553,554,555,564,565,566
Seq#:23; N Pos. 567,568,569,570,571,572,573,574,575,576,577,578,580,581,582
Seq#:23; N Pos. 583,586,587,588,589,593,596,597,598,599,600,601,602,603,604
Seq#:23; N Pos. 605,606,607,608,609,610,611,612,613,614,615,616,617,618,619
Seq#:23; N Pos. 620,621,622,623,624,625,626,627,628,629,630,631,632,633,634
Seq#:23; N Pos. 635,636,637,638,639,640,641,642,643,644,645,646,647,648,649
Seq#:23; N Pos. 650,651,652,653,654,655,656,657,658,659,660,661,662,663,664
Seq#:23; N Pos. 665,666,667,668,669,670,671,672,673,674,675,676,677,678,679
Seq#:23; N Pos. 680,681,682,683,684,685,686,687,688,689
Seq#:28; N Pos. 542
Seq#:43; N Pos. 648
Seq#:62; N Pos. 441
Seq#:63; N Pos. 2,335,374,384,422,432,448,458,471,477,482
Seq#:76; N Pos. 256,340,345,369,423,524,546,558,596,618,631,653,661
Seq#:90; N Pos. 42,220,249,370,396,400,401,440,441,442,443,450,456,476,477
Seq#:90; N Pos. 478,479,483,484,485,486,487,488,489,491,492,496,498,499,500
Seq#:90; N Pos. 501,502,504,509,511,512,513,514,515,517,519,520,521,522,523
Seq#:90; N Pos. 524,525,526,527,528,529,530,531,532,533,534,535,536,537,538
Seq#:90; N Pos. 539,540,541,542,544,545,546,547,549,550,551,552,553,554,555
Seq#:90; N Pos. 556,557,558,559,560,561,562,564,565,566,567,568,569,570,571
Seq#:90; N Pos. 572,573,574,575,576,577,578,580,581,583,584,585,586,587,588
Seq#:90; N Pos. 589,591,592,593,594,596,597,598,599,600,601,602,603,604,605
Seq#:90; N Pos. 606,607,608,609,610,611,612,613,614,615,616,617,618,619,620
Seq#:90; N Pos. 621,622,623,624,625,627,628,629,630,631,632,633,634,635,636
Seq#:90; N Pos. 637,638,639,640,641,642,643,645,646,647,649,650,652,654,655
Seq#:90; N Pos. 656,657,658,659,660,661,663,665,666,667,668,669,671,672,673
Seq#:90; N Pos. 674,677,678,679,680,681,682,683,684,685,686,687,689,690,691
Seq#:90; N Pos. 693,694,695,696,697,698,699,701,704,706,707,708,709,710,714
Seq#:90; N Pos. 715,716,717,721,722,723,724,726,727,730,731,733,735,736,738
Seq#:90; N Pos. 739,740,742,743,745,746,747,749,750,751,752,754,755,756,758
Seq#:90; N Pos. 759,760,761,763,765,766,767,768,770,771,773,774,775,776,778
Seq#:90; N Pos. 780,781,782,783,785,786,787,788,790,791,792,793,794,795,796
Seq#:90; N Pos. 799,800,801,802,803,804,805,807,808,809,810,812,814,815,816
Seq#:90; N Pos. 817,818,819,820,822,823,824,825,826,827,829,831,833,835,839
Seq#:90; N Pos. 840,841,842,844,845,846,848,849,851,852,854,855,856,857,858
Seq#:90; N Pos. 859,860,861,862,864,865,866,867,868,869,871,880
Seq#:125; N Pos. 2084

VERIFICATION SUMMARY

DATE: 01/08/2007

PATENT APPLICATION: US/10/775,169A

TIME: 14:46:54

Input Set : E:\Sequence Listing.ST25.txt

Output Set: N:\CRF4\01082007\J775169A.raw

L:310 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:300
L:326 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:780
L:328 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:840
L:330 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:900
L:332 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:960
L:334 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:1020
L:427 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:759 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:660
L:1087 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:600
L:1105 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0
L:1111 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:180
L:1113 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:240
L:1115 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:300
L:1117 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:360
L:1119 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:420
L:1121 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:480
L:1123 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:540
L:1125 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:600
L:1127 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:660
L:1513 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:540
L:2541 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:600
L:10177 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62 after pos.:420
L:10193 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63 after pos.:0
L:10203 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63 after pos.:300
L:10205 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63 after pos.:360
L:10207 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63 after pos.:420
L:10209 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63 after pos.:480
L:11529 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76 after pos.:240
L:11531 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76 after pos.:300
L:11533 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76 after pos.:360
L:11535 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76 after pos.:420
L:11537 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76 after pos.:480
L:11539 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76 after pos.:540
L:11541 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76 after pos.:600
L:11543 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76 after pos.:660
L:24345 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:90 after pos.:0
L:24351 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:90 after pos.:180
L:24353 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:90 after pos.:240
L:24357 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:90 after pos.:360
L:24359 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:90 after pos.:420
L:24361 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:90 after pos.:480
L:24363 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:90 after pos.:540
L:24365 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:90 after pos.:600
L:24367 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:90 after pos.:660
L:24369 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:90 after pos.:720
L:24371 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:90 after pos.:780
L:24373 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:90 after pos.:840
L:26891 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:125 after pos.:2040